

Amendment To The Specification**At Paragraph [24]**

A tube 46 is operatively connected to the fluid output 42 at a first end 48 such that chilled fluid may pass from the cooling unit 32, through the cooling fluid output 42, and into the tube 46. A second end 50 of the tube 46 is removably connected to a cooling duct 52, by way of a fluid inlet 54, positioned around the x-ray tube 20. The cooling duct 52 may be an air/fluid-tight tube-like structure that overlies a portion of the x-ray tube 20. Optionally, the cooling duct 52 may be an air/fluid-tight membrane, sack or pouch that surrounds all, or substantially all, of the x-ray tube 20. The cooling duct 52 also includes a fluid outlet 56. A tube 58 is removably connected to the fluid outlet 56 to allow fluid to pass from the cooling duct 52 back to the cooling unit 32 through the return fluid input 44. The fluid outlets 48, 42, 56 and the fluid inlets 44 and 54 include structures, such as check valves, to ensure that fluid does not escape when the cooling unit 32 is not in operation and/or when the tubes 46 and 58 are not connected thereto. Prior to imaging, the tubes 46 and ~~56~~ 58 are connected to the fluid inlets 54 and fluid outlet 56, respectively, so that the x-ray tube 20 may be cooled by chilled fluid circulated by the cooling unit 32.

At Paragraph [25]

As shown in Figure 1, the tubes 46 and 58 are removably connected to the cooling duct 52 at the fluid inlet 54 and outlet 56, respectively. Alternatively, the fluid inlet 54 and the fluid outlet 56 may be positioned on the main body 16 of the x-ray imaging device 11. Pipes, ducts, or other such structures may be positioned within the main body ~~12~~, 16 and the positioning arm 18 in order to allow fluid to pass from the cooling unit 32 to the

cooling duct 52. That is, the x-ray imaging device 11 may include interior piping, ducts, passages, channels and the like that are adapted to allow fluid to pass between the cooling duct 52 and the cooling unit 32. Also, alternatively, the x-ray imaging device 11 may include exterior piping, ducts, passages, channels and the like that are adapted to allow fluid to pass between the cooling duct 52 and the cooling unit 32. Thus, instead of constructing the x-ray imaging device 11 to have channels, ducts, and the like within the x-ray imaging device 11, these components may be positioned on the outside of the main body 16 and the positioning arm 18.

At Paragraph [26]

Also, alternatively, the cooling duct 52 may not be permanently attached to the x-ray tube 20. Instead, the tubes 46, ~~56~~ 58 and the cooling duct 52 may be a single, unitary, integrally-formed structure. In this case, the fluid inlet 54 and fluid outlet 56 are unnecessary due to the fact that the tubes 46, 58 and cooling duct 52 are a unitary structure. The structure defined by the tubes 46, 58 and the cooling duct 52 may be configured to be removably wrapped, draped, or otherwise positioned over, the x-ray tube 20. Thus, when the x-ray imaging device 11 is not in operation, the cooling structure is removed from the x-ray tube 20. Prior to imaging, however, the cooling structure may be operatively connected to (e.g., draped, shrouded, enveloped, etc., around) the x-ray tube 20. Optionally, a removable cooling structure may be positioned within the x-ray tube 20, while another removable cooling structure may be positioned outside the x-ray tube 20. Further, the removable cooling structure may include a portion positioned within the x-ray tube 20 and another portion positioned outside the x-ray tube 20.

At Paragraph [31]

While the imaging system 11 is shown as a mobile imaging system, embodiments of the present invention may also be used with permanent, non-mobile imaging systems. For example, the auxiliary module 24 may be used with a fixed x-ray C-arm imaging system. Additionally, the auxiliary module 24 does not necessarily need to include both the cooling unit 32 and the booster battery pack 34. That is, the auxiliary module 24 may include either the cooling unit 32 or the battery pack 34, but not both. Optionally, the auxiliary module ~~23~~ 24 may not be mobile, but may rather be mounted to a wall, floor, or a structure within an imaging room. Further, embodiments of the present invention may provide a cooling and/or power boost system that is not mobile. The cooling and/or power boost system may be affixed to the main body 16 or the positioning arm 18, instead of being remotely located therefrom.